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Math worksheet on *'Fraction Manipulation Algebra - Orientation 2 (Level 4)'*. Part of a broader unit on *'Algebra Basic Concepts - Advanced'*

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1 Solve the fraction for 'x' in terms of the variables and reduce.

$$3a = \frac{3x}{4b}$$

a $x = \frac{4a}{9b}$ **b** $x = \frac{b}{a}$ **c** $x = 4a \cdot b$ **d** $x = \frac{3b}{12a}$ **e** $x = \frac{3a}{12b}$

2 Solve the fraction for 'x' in terms of the variables and reduce.

$$2a = \frac{2x}{4b}$$

a $x = \frac{2b}{8a}$ **b** $x = 4a \cdot b$ **c** $x = \frac{b}{a}$ **d** $x = \frac{4a}{4b}$

3 Solve the fraction for 'x' in terms of the variables and reduce.

$$3a = \frac{2x}{4c}$$

a $x = \frac{4c}{6a}$ **b** $x = \frac{3a \cdot c}{8}$ **c** $x = \frac{4a}{6c}$ **d** $x = 6a \cdot c$ **e** $x = \frac{3a}{8c}$

4 Solve the fraction for 'x' in terms of the variables and reduce.

$$2a = \frac{3x}{2b}$$

a $x = \frac{b}{a}$ **b** $x = \frac{2b}{6a}$ **c** $x = \frac{4a \cdot b}{3}$

5 Solve the fraction for 'x' in terms of the variables and reduce.

$$3a = \frac{3x}{2c}$$

a $x = 2a \cdot c$ **b** $x = \frac{3c}{6a}$ **c** $x = \frac{3a}{6c}$ **d** $x = \frac{3a \cdot c}{6}$ **e** $x = \frac{c}{a}$

6 Solve the fraction for 'x' in terms of the variables and reduce.

$$4a = \frac{2x}{3b}$$

a $x = \frac{4a}{6b}$ **b** $x = \frac{12a \cdot b}{2}$ **c** $x = \frac{3a}{8b}$ **d** $x = 6a \cdot b$

7 Solve the fraction for 'x' in terms of the variables and reduce.

$$4a = \frac{4x}{4b}$$

a $x = 4a \cdot b$ **b** $x = \frac{4a}{16b}$ **c** $x = \frac{b}{64a}$ **d** $x = \frac{16a \cdot b}{4}$